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PTO/SB/80 (01-06)

Approved for use through 12/31/2008. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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IF/0

## POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

Practitioners associated with the Customer Number:

OR

Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

| Name        | Registration Number | Name | Registration Number |
|-------------|---------------------|------|---------------------|
| Joseph Pugh | 52,137              |      |                     |
|             |                     |      |                     |
|             |                     |      |                     |
|             |                     |      |                     |
|             |                     |      |                     |

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

The address associated with Customer Number:

OR

|   |                               |       |               |
|---|-------------------------------|-------|---------------|
| <input checked="" type="checkbox"/> Firm or Individual Name | Tri-Quint Semiconductor, Inc. |       |               |
| Address   | 2300 NE Brookwood Parkway     |       |               |
| City  | Hillsboro                     | State | Oregon        |
| Country   | United States                 |       |               |
| Telephone   | 503-615-9616                  | Email | jpugh@tqs.com |

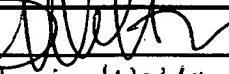
Assignee Name and Address:

Tri-Quint Technology Holding Co  
2300 NE Brookwood Parkway  
Hillsboro, Oregon 97124

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

### SIGNATURE of Assignee of Record

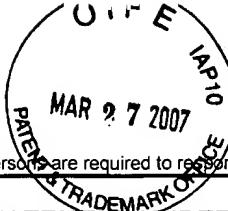
The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

|           |   |           |              |
|-----------|---|-----------|--------------|
| Signature |  | Date      | 2/15/07      |
| Name      | Stephanie Welty   | Telephone | 503-615-9000 |
| Title     | Secretary   |           |              |

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

NEST AVAILABLE COPY



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**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: TriQuint Technology Holding Co.Application No./Patent No.: 6,839,364 Filed/Issue Date: January 4, 2005

Entitled: FEEDBACK CONTROL LOOP OPERATING SYSTEM FOR TUNABLE SOURCE

TriQuint Technology Holding Co., a Corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1.  the assignee of the entire right, title, and interest; or
2.  an assignee of less than the entire right, title and interest  
(The extent (by percentage) of its ownership interest is \_\_\_\_\_ %)

in the patent application/patent identified above by virtue of either:

A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Inventors To: Lucent Technologies Inc.  
The document was recorded in the United States Patent and Trademark Office at  
Reel 011182, Frame 0214, or for which a copy thereof is attached.
2. From: Lucent Technologies Inc. To: Agere Systems Optoelectronics Guardian Corp.  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: Agere Systems Optoelectronics Guardian C To: Agere Systems Guardian Corp.  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature

3/14/07

Date

Joseph Pugh

(503) 615-9616

Printed or Typed Name

Telephone Number

Legal Counsel

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Supplemental Sheet

4. From: Agere Systems Guardian Corp. To: Agere System Inc.

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

5. From: Agere Systems Inc. To: TriQuint Technology Holding Co.

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

**EXECUTION COPY**

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**PATENT ASSIGNMENT**

**by and between**

**LUCENT TECHNOLOGIES INC.**

**and**

**AGERE SYSTEMS OPTOELECTRONICS GUARDIAN CORP.**

**Dated as of January 30, 2001**

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## PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (this "Assignment"), effective as of January 30, 2001 (the "Effective Date"), is by and between Lucent Technologies Inc., a Delaware corporation, with offices at 600 Mountain Avenue, Murray Hill, New Jersey 07974, United States of America, ("ASSIGNOR") and Agere Systems Optoelectronics Guardian Corp., a Delaware corporation, with offices at 555 Union Boulevard, Allentown, PA 18109, United States of America ("Agere Systems Optoelectronics Guardian").

### RECITALS

A. WHEREAS, the Board of Directors of ASSIGNOR has determined that it is in the best interests of ASSIGNOR and its stockholders to separate ASSIGNOR's existing businesses into two independent businesses;

B. WHEREAS, ASSIGNOR presently owns or controls certain patents, patent applications, and invention submissions listed in the attached Appendices A and B (hereinafter "TRANSFERRED PATENTS") and;

C. WHEREAS, in furtherance of the foregoing separation, ASSIGNOR desires to transfer, assign, convey, deliver and vest all of its interests and rights in TRANSFERRED PATENTS for all countries, jurisdictions and political entities of the world, to and in Agere Systems Optoelectronics Guardian;

NOW, THEREFORE, in consideration of the premises and for other good and valid consideration, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, agree as follows:

ASSIGNOR, subject to existing rights and licenses of third parties, does hereby assign, convey, transfer and deliver, and agrees to assign, convey, transfer and deliver to Agere Systems Optoelectronics Guardian, its successors, assigns and legal representatives or nominees, ASSIGNOR's entire right, title and interest, for all countries, jurisdictions and political entities of the world, along with the right to sue for past infringement, to all TRANSFERRED PATENTS listed on Appendices A and B, and corresponding counterpart foreign patents and patent applications, with respect to which, and to the extent to which, ASSIGNOR now has or hereafter acquires the right to so assign, convey, transfer and deliver. Agere Systems Optoelectronics Guardian recognizes that ASSIGNOR holds only bare legal title to the TRANSFERRED PATENTS listed in Appendix A (which lists the United States Patents and patent applications previously exclusively licensed to Lucent Technologies Optoelectronics Guardian Corp.).

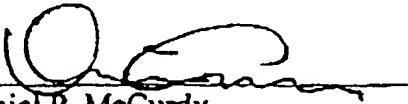
ASSIGNOR and ASSIGNEE recognize that the patents listed in Appendices A and B may inadvertently include patents that are owned by various subsidiaries of ASSIGNOR, including Agere, Inc., Ortel Corporation, Optimay Corporation, Herrmann Technology, Inc., and

Enable Semiconductor, Inc. Ownership of such patents shall not be affected by this Patent Assignment, and ASSIGNEE agrees that any such patents shall be deemed deleted from Appendices A and B.

ASSIGNOR agrees that, upon request it will, at any time without charge to Agere Systems Optoelectronics Guardian, but at Agere Systems Optoelectronics Guardian's expense, furnish all necessary documentation relating to or supporting chain of title, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for vesting title to TRANSFERRED PATENTS in Agere Systems Optoelectronics Guardian, its successors, assigns and legal representatives or nominees; including but not limited to any acts which may be necessary, desirable or convenient for claiming said rights and for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in Agere Systems Optoelectronics Guardian and its respective successors, assigns and legal representatives or nominees.

IN WITNESS WHEREOF, the parties have caused this PATENT ASSIGNMENT to be executed by their duly authorized representatives as of the Effective Date.

LUCENT TECHNOLOGIES INC.

By:   
Daniel P. McCurdy  
President, Intellectual Property Business

AGERE SYSTEMS OPTOELECTRONICS  
GUARDIAN CORP.

By:   
Fred M. Romano  
President

ACKNOWLEDGMENTS

STATE OF NEW JERSEY )  
: ss:  
COUNTY OF SOMERSET )

I CERTIFY that on January 30, 2001, Daniel P. McCurdy personally came before me and this person acknowledged under oath, to my satisfaction that:

a.) this person signed, sealed and delivered the attached Patent Assignment as President - Intellectual Property Business of Lucent Technologies Inc.; and

b.) this Patent Assignment was signed and made by Lucent Technologies Inc. as its voluntary act and deed by virtue of authority from its Board of Directors.

DANIEL P. McCURDY

Name

Notary Public

My Commission Expires: MARINA ANNE HANNA  
[Notarial Seal]

Notary Public of New Jersey  
Registered in Hunterdon County  
My Commission Expires March 25, 2004

STATE OF FLORIDA )  
: ss:  
COUNTY OF ORANGE )

I CERTIFY that on January 31, 2001, Fred M. Romano personally came before me and this person acknowledged under oath, to my satisfaction that:

a.) this person signed, sealed and delivered the attached Patent Assignment as Vice President of Agere Systems Optoelectronics Guardian Corp. ; and

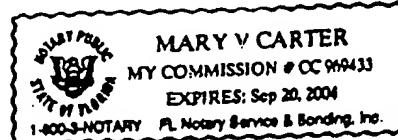
b.) this Patent Assignment was signed and made by Agere Systems Optoelectronics Guardian Corp. as its voluntary act and deed by virtue of authority from its Board of Directors.

MARY V. CARTER

Name

Notary Public

My Commission Expires:  
[Notarial Seal]



**APPENDIX B (continued)**  
**Transferred Patents**

| <b>IDS No.</b>               | <b>Inventors</b>  | <b>Subject Matter</b>  |
|------------------------------|---|--|
| <b>Broutin 31-<br/>35-50</b> | <b>Broutin, Scott L. BL0111660, Plourde, James Kevin BL0111660, Stay, John William BL0111660,</b> | <b>Feedback Control Loop Operating System For Tunable Source</b> |

CERTIFICATE OF MERGER  
OF  
AGERE SYSTEMS OPTOELECTRONICS GUARDIAN CORP.  
WITH AND INTO  
AGERE SYSTEMS GUARDIAN CORP.

UNDER SECTION 251 OF THE GENERAL  
CORPORATION LAW OF THE STATE OF DELAWARE

Pursuant to Section 251(c) of the General Corporation Law of the State of Delaware, Agere Systems Guardian Corp. hereby certifies the following information relating to the merger of Agere Systems Optoelectronics Guardian Corp. with and into Agere Systems Guardian Corp.:

1. The names and states of incorporation of each constituent corporation in the merger are:

| Name  | State of Incorporation |
|---|------------------------|
| Agere Systems Optoelectronics<br>Guardian Corp. | Delaware               |
| Agere Systems Guardian Corp.                    | Delaware               |

2. An Agreement and Plan of Merger setting forth the terms and conditions of the merger, has been approved, adopted, certified, executed and acknowledged by each of Agere Systems Optoelectronics Guardian Corp. and Agere Systems Guardian Corp. in accordance with the provisions of Section 251(c) of the General Corporation Law of the State of Delaware.

3. The name of the surviving corporation in the merger is Agere Systems Guardian Corp.

4. The Certificate of Incorporation of Agere Systems Guardian Corp. shall be the Certificate of Incorporation of the surviving corporation.

5. The executed Agreement and Plan of Merger is on file at the principal place of business of Agere Systems Guardian Corp. at Two Oak Way, Berkeley Heights, NJ 07922.

6. A copy of the Agreement and Plan of Merger will be furnished by Agere Systems Guardian Corp. on request and without cost, to any stockholder of Agere Systems Guardian Corp. or Agere Systems Optoelectronics Guardian Corp.

7. The authorized capital stock of Agere Systems Optoelectronics Guardian Corp. is 1,000 shares of common stock, no par value per share.

8. The Merger shall be effective as of 9:00 a.m. Eastern Standard Time on August 31, 2001.

**IN WITNESS WHEREOF**, this Certificate of Merger has been executed on this 23rd day of August 2001.

**AGERE SYSTEMS GUARDIAN CORP.**

By Gerard deBlasi  
Gerard A. deBlasi  
Vice President

State of Delaware  
Office of the Secretary of State

PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"AGERE SYSTEMS OPTOELECTRONICS GUARDIAN CORP.", A DELAWARE CORPORATION,

WITH AND INTO "AGERE SYSTEMS GUARDIAN CORP." UNDER THE NAME OF "AGERE SYSTEMS GUARDIAN CORP.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-FOURTH DAY OF AUGUST, A.D. 2001, AT 9 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE THIRTY-FIRST DAY OF AUGUST, A.D. 2001, AT 9 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

3258123 8100M



Harriet Smith Windsor  
Harriet Smith Windsor, Secretary of State

010418909

AUTHENTICATION: 1311649

DATE: 08-24-01

CERTIFICATE OF OWNERSHIP AND MERGER

OF

Agere Systems Guardian Corp.  
(a Delaware corporation)

INTO

Agere Systems Inc.  
(a Delaware corporation)

UNDER SECTION 253 OF THE GENERAL  
CORPORATION LAW OF THE STATE OF DELAWARE

Agere Systems Inc., a corporation organized and existing under the laws of Delaware ("Corporation"), DOES HEREBY CERTIFY:

**FIRST:** The Corporation is the owner of all of the outstanding shares of common stock of Agere Systems Guardian Corp., which is also a business corporation of the State of Delaware.

**SECOND:** On August 22, 2002 the Subsidiary Governance Committee of the Board of Directors of the Corporation adopted the following resolution to merge Agere Systems Guardian Corp. into the Corporation:

**RESOLVED** that Agere Systems Guardian Corp., a Delaware corporation, shall be merged with and into Agere Systems Inc., a Delaware corporation, with Agere Systems Inc. being the surviving corporation, and Agere Systems Inc. shall thereupon assume all of the obligations of Agere Systems Guardian Corp."

**THIRD:** That the merger authorized hereby shall become effective as of 9:00 a.m. Eastern Standard Time on August 31, 2002.

Executed on August 22, 2002

AGERE SYSTEMS INC.

By Paul Bento  
Paul Bento, Vice President

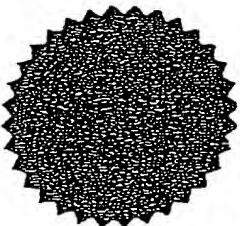
*The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"AGERE SYSTEMS GUARDIAN CORP.", A DELAWARE CORPORATION, WITH AND INTO "AGERE SYSTEMS INC." UNDER THE NAME OF "AGERE SYSTEMS INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-NINTH DAY OF AUGUST, A.D. 2002, AT 9 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF AUGUST, A.D. 2002.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

3268412 8100M

AUTHENTICATION: 1959517

020545223

DATE: 08-29-02

APPENDIX G

PATENT APPLICATION ASSIGNMENT

THIS PATENT APPLICATION ASSIGNMENT is made as of January 2, 2003 by AGERE SYSTEMS INC., a Delaware corporation having a principal place of business at 1110 American Parkway, NE, Allentown, Pennsylvania 18109, hereinafter referred to as the ASSIGNOR, and TRIQUINT TECHNOLOGY HOLDING CO., a Delaware corporation with offices at 2300 NE Brookwood Parkway, Hillsboro, OR 97124, hereinafter referred to as the ASSIGNEE.

ASSIGNOR is the owner of certain patent applications identified on Schedule "A" attached hereto (the "ASSIGNED PATENT APPLICATIONS").

ASSIGNEE desires to acquire the entire right, title and interest of ASSIGNOR in and to said ASSIGNED PATENT APPLICATIONS.

For good and valuable consideration paid by the ASSIGNEE, the receipt of which is hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer to the ASSIGNEE, at ASSIGNEE's sole expense, ASSIGNOR's entire right, title and interest in and to the ASSIGNED PATENT APPLICATIONS, in the U.S. and every foreign country, and all patent rights, including extensions or derivations thereof, both foreign and domestic, that may issue on the ASSIGNED PATENT APPLICATIONS. ASSIGNEE hereby authorizes and requests the Commissioner of Patents that all U.S. patents that issue on the ASSIGNED PATENT APPLICATIONS shall issue to ASSIGNEE. This assignment includes assignment to ASSIGNEE of the right to make application in its own behalf for protection of the ASSIGNED PATENT APPLICATIONS and any patents issued on the ASSIGNED PATENT APPLICATIONS, in the U.S. and countries foreign to the U.S., and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of any earlier U.S. application (or any other application on the invention) to gain priority with respect to other applications. The ASSIGNED PATENT APPLICATIONS and all patents that issue on the ASSIGNED PATENT APPLICATIONS shall be held and enjoyed by the ASSIGNEE, its successors and assigns as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this assignment not been made.

ASSIGNOR covenants and agrees to execute such further and confirmatory assignments in recordable form as the ASSIGNEE may require to vest record title of said respective ASSIGNED PATENT APPLICATIONS in ASSIGNEE.

IN WITNESS WHEREOF, the ASSIGNOR has caused this Assignment to be executed by a duly authorized officer.

AGERE SYSTEMS INC.

By: Gerard A. deBlasi  
Name: Gerard A. deBlasi  
Title: Vice President

## SCHEDULE A OF PATENT APPLICATION ASSIGNMENT

### ASSIGNED PATENT APPLICATIONS

| <i>Full Case Name</i>       | <u>IDS</u> | <i>Country</i> | <i>Patent # / Serial #</i> |
|-----------------------------|------------|----------------|----------------------------|
| DA Ackerman 25-24-29-44     | 118172     | CHINA          | 00137088.X                 |
| DA Ackerman 25-24-29-44     | 118172     | JAPAN          | 2000-396401                |
| DA Ackerman 25-24-29-44     | 118172     | CANADA         | 2327981                    |
| DA Ackerman 25-24-29-44     | 118172     | FRANCE         | 311056.6                   |
|                             | 118172     | GERMAN         | 311056.6                   |
| DA Ackerman 25-24-29-44     |            | Y              |                            |
| DA Ackerman 25-24-29-44     | 118172     | GR BRIT        | 311056.6                   |
| DA Ackerman 25-24-29-44     | 118172     | USA            | 09/475606                  |
| DA Ackerman 27-15-1-13-11-2 | 122865     | USA            | 09/668675                  |
| DA Ackerman 27-15-1-13-11-2 | 122865     | FRANCE         | 1307994.2                  |
|                             | 122865     | GERMAN         | 1307994.2                  |
| DA Ackerman 27-15-1-13-11-2 |            | Y              |                            |
| DA Ackerman 27-15-1-13-11-2 | 122865     | GR BRIT        | 1307994.2                  |
| DA Ackerman 27-15-1-13-11-2 | 122865     | JAPAN          | 2001-288062                |
| DA Ackerman 29-14-7-11      | 123914     | USA            | 10/036437                  |
| DA Ackerman 30-29-6-22      | 123989     | USA            | 10/036397                  |
| DA Ackerman 31-2            | 123884     | USA            | 10/157452                  |
| T Ahmed 2-6-4-9-27          | 124063     | USA            |                            |
| YA Akulova 1-4-2            | 120821     | USA            | 60/175010                  |
| YA Akulova 1-4-2            | 120821     | USA            | 09/540471                  |
| YA Akulova 1-4-2            | 120821     | KOREA          | 102001-0000910             |
| YA Akulova 1-4-2            | 120821     | JAPAN          | 2001-1383                  |
| YA Akulova 1-4-2            | 120821     | TAIWAN         | 90100234                   |
| YA Akulova 1-4-2            | 120821     | GR BRIT        | 100172.6                   |
| YA Akulova 2-14-11-5-7-8    | 119681     | USA            | 09/539882                  |
| YA Akulova 2-14-11-5-7-8    | 119681     | CANADA         | 2342518                    |
| YA Akulova 2-14-11-5-7-8    | 119681     | GR BRIT        | 1303131.5                  |
| YA Akulova 2-14-11-5-7-8    | 119681     | FRANCE         | 1303131.5                  |
|                             | 119681     | GERMAN         | 1303131.5                  |
| YA Akulova 2-14-11-5-7-8    |            | Y              |                            |
| YA Akulova 2-14-11-5-7-8    | 119681     | CHINA          | 1117803.5                  |
| YA Akulova 2-14-11-5-7-8    | 119681     | JAPAN          | 2001-101591                |
| YA Akulova 3-12-10          | 120821     | USA            | 09/645913                  |
| YA Akulova 4-74-10-6-12-3   | 120340     | USA            | 09/923661                  |
| YA Akulova 5-8-6-11-15      | 122845     | USA            | 10/125169                  |
| MA Alam 2-3                 | 116221     | USA            | 60/117239                  |
| MA Alam 2-3                 | 116221     | FRANCE         | 1030420                    |
|                             | 116221     | GERMAN         | 60000178.4                 |
| MA Alam 2-3                 |            | Y              |                            |
| MA Alam 2-3                 | 116221     | GR BRIT        | 1030420                    |
| MA Alam 2-3                 | 116221     | KOREA          | 2000-0003651               |
| MA Alam 2-3                 | 116221     | USA            | 09/370667                  |
| MA Alam 2-3                 | 116221     | JAPAN          | 2000-015646                |
| MA Alam 3-6-4-9-9-10-59     | 119698     | FRANCE         | 1302875.8                  |
|                             | 119698     | GERMAN         | 1302875.8                  |
| MA Alam 3-6-4-9-9-10-59     |            | Y              |                            |

|                            |        |         |             |
|----------------------------|--------|---------|-------------|
| S Bhandarkar 21-1-61-1-7   | 124313 | USA     | 10/196678   |
| S Bhowmik 13-1             | 124045 | JAPAN   |             |
| S Bhowmik 13-1             | 124045 | USA     |             |
| S Bhowmik 13-1             | 124045 | FRANCE  |             |
|                            | 124045 | GERMAN  |             |
| S Bhowmik 13-1             |        | Y       |             |
| S Bhowmik 13-1             | 124045 | GR BRIT |             |
| S Bhowmik 15               | 124212 | USA     | 10/199586   |
| S Bhowmik 16               | 124481 | USA     |             |
| GA Bogert 10-3-14-9        | 124314 | USA     |             |
| GA Bogert 9-1-7-13-44-10-1 | 124244 | USA     |             |
| CD Brandle 28-13-1-1       | 124137 | USA     | 60/327415   |
| CD Brandle 28-13-1-1       | 124137 | JAPAN   |             |
| CD Brandle 28-13-1-1       | 124137 | USA     | 10/091002   |
| SL Broutin 18-20-5-38      | 118182 | JAPAN   | 2000-381366 |
| SL Broutin 18-20-5-38      | 118182 | FRANCE  | 310956.8    |
|                            | 118182 | GERMAN  | 310956.8    |
| SL Broutin 18-20-5-38      |        | Y       |             |
| SL Broutin 18-20-5-38      | 118182 | GR BRIT | 310956.8    |
| SL Broutin 18-20-5-38      | 118182 | CHINA   | 135560      |
| SL Broutin 18-20-5-38      | 118182 | CANADA  | 2327778     |
| SL Broutin 18-20-5-38      | 118182 | USA     | 09/461617   |
| SL Broutin 28-32-47        | 120977 | USA     | 09/703439   |
| SL Broutin 30-49           | 122499 | USA     | 09/708301   |
| → SL Broutin 31-35-50      | 120333 | USA     | 09/672050 ← |
| SL Broutin 33-37-76-51     | 122067 | USA     | 09/931188   |
| RB Bylsma 13-12            | 122508 | USA     | 09/993425   |
| RB Bylsma 14-1-1-8-2       | 123931 | FRANCE  |             |
|                            | 123931 | GERMAN  |             |
| RB Bylsma 14-1-1-8-2       |        | Y       |             |
| RB Bylsma 14-1-1-8-2       | 123931 | GR BRIT |             |
| RB Bylsma 14-1-1-8-2       | 123931 | JAPAN   |             |
| RB Bylsma 14-1-1-8-2       | 123931 | USA     | 10/057806   |
| RB Bylsma 15-2-2-9-3       | 123931 | USA     | 10/123671   |
| RB Bylsma 9-7-7            | 116434 | USA     | 09/531264   |
| RB Bylsma 9-7-7            | 116434 | FRANCE  | 1302578.8   |
|                            | 116434 | GERMAN  | 1302578.8   |
| RB Bylsma 9-7-7            |        | Y       |             |
| RB Bylsma 9-7-7            | 116434 | GR BRIT | 1302578.8   |
| RB Bylsma 9-7-7            | 116434 | CANADA  | 2335892     |
| RB Bylsma 9-7-7            | 116434 | JAPAN   | 2001-77666  |
| RB Bylsma 9-7-7            | 116434 | CHINA   | 1111492.4   |
| B Caras 2-14-28-5-1        | 114647 | USA     | 09/312435   |
| CD Carr 1-8-2-1            | 123015 | USA     | 09/752787   |
| CD Carr 5-6-4-4            | 123890 | USA     | 10/174021   |
| PJ Carroll 1-24-7-1-4      | 116943 | CANADA  | 2343441     |
| PJ Carroll 1-24-7-1-4      | 116943 | JAPAN   | 110129/2001 |
| PJ Carroll 1-24-7-1-4      | 116943 | USA     | 09/545494   |
| PJ Carroll 1-24-7-1-4      | 116943 | CHINA   | 1117844.2   |
| PJ Carroll 1-24-7-1-4      | 116943 | FRANCE  | 1303331.1   |
| PJ Carroll 1-24-7-1-4      | 116943 | GERMAN  | 1303331.1   |

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